

Course Title: Superconducting Magnet Division Specific Information for Staff Shop (Process/Operation)

Course Number AM-ENV-FS3

Because this work activity has been identified as having significant potential to impact the environment, this material has been compiled to provide you with the job-specific information that you must know to protect the environment. Please read the following carefully. If you have any questions concerning the material, contact your supervisor, ES&H Coordinator or the Environmental Compliance.

You may print this material as a handout and use it as a reference aid. This specific training course is linked to your job-training assessment (JTA). You must read and acknowledge this material as part of the qualification to perform shop work. Please fill out the Read and Acknowledgement form at the end of the course material and return it promptly to your Training Coordinator.

Environmental Process Evaluation Title: Environmental Training for Staff Shop Operations

Environmental Aspect Regulated Industrial Waste, Hazardous Waste, Atmospheric Discharge, Storage and Use of Chemicals

Contacts for the Information (current contacts are found on the Division's ESHQ Web page):

[Environmental Compliance Rep](#)
[Facility Support Rep](#)
[ES&H Coordinator](#)
[Training Coordinator](#)

Job Training Assessment Links: AM-06, AM-20, AM-24, AM-30, AM-31, AM-32, AM-33, AM-39 (Superconducting Magnet Division)

Course Objective: **Because your work activities have been identified as having significant potential to impact the environment, this course has been designed to provide you with the job-specific information that you must know to protect the environment.**

- 1) What potential impacts to the environment are associated with your activities?
 - Negative impact to soil from improper disposal of oil or solvents.
 - Using non-approved chemicals that can damage the environment (i.e. halogenated spray solvents that damage the ozone layer)
 - Air contamination from improper machining and sanding at permitted hoods.
- 2) What consequences may result if your operations were to impact the environment?
 - Regulatory noncompliance, fines, violations.
 - Disciplinary actions for willful violations.
 - Loss of permits to use hoods
 - And possible shutdown of Facility.
- 3) What benefits or positive effects would you notice with improved environmental performance?
 - Satisfy compliance requirements and avoid NYS or EPA violation/fines.
 - More money for Department projects because of reduced disposal costs.
 - Less clean-up expenses for Dept.
- 4) What role and responsibility do you have for these potential impacts and environmental performance?

- To ensure Industrial wastes are handled according to lab procedures
- To take action when controls fail (such as calling x2222 if spills occur).
- Complete log books at permitted points of emission.
- To suggest possible Pollution Prevention ideas.
- To contact supervision if you are unsure how to perform the work or if the procedures are unclear or incorrect.
- Follow applicable requirements in the following SBMS Environmental Compliance Subject Area (<http://sbms.bnl.gov>)
 - [Hazardous Waste Management \(Section 1\)](#)
 - [Non-Radiological Airborne Emissions \(Section 2\)](#)

5) What controls or procedures are implemented to reduce the potential for emergency?

- Catch basins below nozzles when transferring material from drums into smaller containers.
- Flammable chemical storage cabinets.
- Chemical Management System.
- Tier I inspections.

6) How would you respond in an emergency to reduce the potential for environmental impact and what actions could be taken to mitigate? (Refer to existing procedures and documents (i.e. the Local Emergency Plan) where applicable)

- No specific emergency scenario is likely but, as Laboratory requirements state, call x2222 if an emergency does occur.

7) What pollution prevention and waste minimization techniques have been or could be considered to reduce or eliminate the potential to impact the environment?

- Provide metal recycling container at the small machine shops.

Suggestions or comments about pollution prevention or waste minimization are always welcome by SMD management.

8) Are there any key Environmental-specific Competency Requirements (Experience, Education, Qualification) for this position?

- [Hazardous Waste Generator](#) (HP-RCRIGEN3) Training for Supervisors
- [Environmental Protection Training](#) (GE-ENV-GET)

**[Click Here to Fill Out Reading
Acknowledgment Form](#)**